

PATENT ABSTRACTS OF JAPAN

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(21) Application number : 01-272307 (71) Applicant : FUJITSU LTD
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(54) TESTING EQUIPMENT FOR LIGHT EMITTING DIODE ARRAY

(57) Abstract:

PURPOSE: To speed up the luminescence level test for each luminescent color by installing a means for judging quality by comparing the output of a photo detecting part and the control output of a test controlling part.

CONSTITUTION: A photo detecting part 6 is constituted of an optical fiber connection part 6-1 and a voltage comparing part 6-2. The optical fiber connection part 6-1 outputs a voltage signal subjected to photoelectric conversion according the optical level of emitted light received by a plurality of photo detectors P1-Pm of each color, arranged so as to face each other in dark boxes B1-Bn, for each end part of each optical fiber. In a voltage comparing part 6-2, the voltage signal is inputted to voltage comparators A1-Am to which a predetermined threshold value is applied, and a detected signal is outputted only when the inputted voltage signal is larger than the threshold value. A quality judging part 7 compares the control signal by which a test controlling part has performed luminescence control with a result signal which an optical detecting part 6 has outputted. When the two signals coincide, a pass indication is displayed. When the two signals do not coincide, a fail indication is displayed. Thereby the luminescence level test for each LED element for each color can be performed in a short time.

